

[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Small image](#) [▼](#)
[Sign in](#) [Preferences](#) [Settings](#)

unicast translate multicast

Search

Advanced Search...[Help](#)

Scholar

Articles and patents

anytime

include citations

Create email alert Results 1 - 18

Method and system for a unicast endpoint client to access a multicast internet protocol (IP) session

OH Sira - US Patent 6,259,701, 2001 - Google Patents
 ... Page 3. US Patent US 6,259,701 B1 Jul. 10, 2001 Sheet 2 of 7 FIG. 2 201 MULTICAST-UNICAST
 SERVER 203 204 MULTI-UNICAST ADDRESS TRANSLATION AND PACKET FORWARDING
 TO MULTICAST NETWORK FIG. 3 Page 4. US Patent US 6,259,701 B1 Jul. ...

Cited by 36 - Related articles - All 2 versions

Method for a unicast endpoint client to access a multicast internet protocol (IP) session and to serve as a redistributor of such session

SH Nurenberg, OH Sira - US Patent 6,181,697, 2001 - Google Patents
 ... US Patent Jan.30,2001 US 6,181,697 B1 Sheet 2 of 5 FIG. 2 1 201 MULTICAST-UNICAST
 SERVER 203 202 MULTI-UNICAST ADDRESS TRANSLATION AND PACKET FORWARDING
 TO MULTICAST NETWORK * FIG. 3 301 304 * 303- 305- BROWSER * 302 * * LAUNCH. ...

Cited by 50 - Related articles - All 2 versions

Optimal partition of QoS requirements on unicast paths and multicast trees

OH Lohman - IFIP/ACM Transactions on Networking (TON) 2002 - portal.acm.org
 ... QoS routing is briefly discussed in Section V. For clarity, we detail here only the framework for
 unicast connections. ... However, such a translation cannot be applied in general, eg, due to complica-
 tions created by topology aggregation and ... (This is also true for any multicast tree. ...
 Cited by 75 - Related articles - All 2 versions

(PDF)

Optimal partition of QoS requirements on unicast paths and multicast trees

OH Lohman - Annual Joint Conference of the IEEE ... 1999 - ieeeexplore.ieee.org
 ... discussed in Section V. For clarity, we detail here only the framework for unicast connections.
 The definitions and terminology for multicast trees are similar and are presented, together with
 the ... in some cases, such mechanisms may allow to translate a delay requirement on a ...
 Cited by 63 - Related articles - All 2 versions

(PDF)

Multicast and unicast internet protocol content distribution having a feedback mechanism for real-time and store and forward information transfer

BL McNeill - US Patent 6,421,706, 2000 - Google Patents
 ... 7 Page 10. US 6,421,706 B1 MULTICAST AND UNICAST INTERNET PROTOCOL CONTENT ...
 Embodi- ments of the invention translate the conference data into an appropriate number of
 formats for the various computing systems of the remote conference participants ...
 Cited by 64 - Related articles - All 2 versions

Arbitration mechanism for a multicast logic engine of a switching fabric circuit

JP Hartman - US Patent 5,898,697, 1999 - Google Patents
 ... switch is an asynchronous transfer mode (ATM) switch configured to receive both unicast and
 multicast ATM ... The remaining header information is 20 processed by an input translation function
 that generates (i) a key indicating whether the cell require multicast replication, (ii ...
 Cited by 17 - Related articles - All 2 versions

Efficient multicast mapping in a network switch

MM Gendreau, GJ Winters - US Patent 5,913,504, 1999 - Google Patents
 ... One advantage associated with the present invention is the facilitation of promoting a unicast
 connection to a multicast connection. When address translation entries associated with
 connections are required to be contiguous, the total number of ports which may be associated ...
 Cited by 43 - Related articles - All 2 versions

Remapping of ATM cells for multicast transmission

[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Email](#) [more](#) ▼

[Scholar Preferences](#) | [Sign in](#)

unicast convert multicast

Search

[Advanced Scholar Search](#)

Method and system for a unicast endpoint client to access a multicast internet protocol (IP) session

DH Shur · US Patent 6,258,761, 2001 · Google Patents

... The AG MUS then receives and sends data on those groups within a session selected by client on behalf of the client. Thus, the MUS functions to convert the address of the Multicast IP packets of a requested-for group to the Unicast IP endpoint address of the requesting client. ...

[Cited by 30](#) · [Related articles](#) · [All 2 versions](#)

Multicast and unicast real-time video streaming over wireless LANs

[PDF]

 A Marmata, BG Gachov, P Kozminskiy · ... and G. ... for 2002 · [IEEE](#)

... A MDPC MDPC is a transcoding mechanism to convert a prioritized multiresolution bitstream (see Fig. ... Page 6 MAJUMDAR et al. MULTICAST AND UNICAST REAL-TIME VIDEO STREAMING OVER WIRELESS LANs 529 Fig. ...

[Cited by 156](#) · [Related articles](#) · [All 2 versions](#)

Method for a unicast endpoint client to access a multicast internet protocol (IP) session and to serve as a redistributor of such session

SH Nürnberg, DH Shur · US Patent 6,181,697, 2001 · Google Patents

... The MUS then receives and sends data on those groups within a session selected by client on behalf of the client. Thus, the MUS functions to convert the address of the Multicast IP packets of a requested-for group to the Unicast IP endpoint address of the requesting client. ...

[Cited by 20](#) · [Related articles](#) · [All 2 versions](#)

...hop all-optical label swapping with variable length 80 Gb/s packets and 10 Gb/s labels using nonlinear fiber wavelength converters, unicast/multicast output and a ...

 L Pan, S Kung'uwan, DJ Bhumerikhat · ... and E. ... for 2002 · [IEEE](#)

... A 1:8 interleaved multiplexer is used to up-convert the packets to XGbits ... The 1.0 and 1.5 ... packets are converted to 1543nm and the 1.2 and 1.5 p packets are converted to 15481" Therefore the 1.5 micronsecond packet can be either unicast or multicast while the other ...

[Cited by 15](#) · [Related articles](#) · [All 2 versions](#)

Method and system for communicating multimedia content in a unicast, multicast, simulcast or broadcast environment

RJ Bruchman, PF Driesen, ES Crandall · US Patent · 2004 · Google Patents

... ADDITIONAL BANDWIDTH TO UNICAST/MULTICAST/SIMULCAST UNITE USER WITH EXISTING UNICAST/MULTICAST 1 ... 205-210 NO 220 215 / CREATE UNICAST 225 230 240 YES, UNITE CELLS TO FORM SUPER-CELL 250 CONVERT TO RF ...

[Cited by 29](#) · [Related articles](#) · [All 2 versions](#)

Method and system for a unicast endpoint client to access a multicast internet protocol (ip) session

 DH Shur · EP Patent 6,902,660, 2004 · [Epo](#)

... Unicast IP addresses Provision is made in the firewall/proxy to limit access by the hosts to M8one Multicasts by using a number of security provisions, and to convert Multicast addresses to the Unicast addresses of approved hosts ...

[Cited by 1](#) · [Related articles](#) · [All 2 versions](#)

An optimized multicast-based data dissemination middleware: A demonstration

[PDF]

 WL Zhang, V Liberatore · Data Engineering · 2002 · [IEEE](#)

... If the ADU is cold, the requested ADU is returned on the unicast pull connection. ... The objective of such gateway is to convert multicast flows from one protocol to another so that clients listening to different multicast chan-nels can communicate with each other ...

[Cited by 11](#) · [Related articles](#) · [All 2 versions](#)

[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Signal](#) [more](#)
[Sign in](#) [Privacy](#) [Terms](#)

Google scholar

unicast conversion multicast

Search

Advanced Search

Scholar | Articles and patents

anytime

include citations

Create email alert

Results 1 - 10

160 Gb/s variable length packet/10 Gb/s-label all-optical label switching with wavelength conversion and unicast/multicast operation

W Wang, L-G Rau ... Technology Journal of, 2005 - [IEEE Xplore](#)

Abstract—We report on the first demonstration of all-optical label switching (AOLS) with 160 Gb/s variable length packets and 10 Gb/s optical labels. This result demonstrates the transparency of AOLS techniques from previously demonstrated 2.5 Gb/s to this 160 Gb/s ...

Cited by 20 • Related articles • All 2 citations

switching/swapping of 160 Gbps variable length packets and 10 Gbps labels using a WDM Raman enhanced-XPM fiber wavelength converter with unicast/multicast ...

W Wang, L Rau ... Optical Fiber Communication, 2004 - [opticsinfobase.org](#)

Abstract We report the first demonstration of all-optical label switching of variable-length 160 Gbps packets and swapping of 10 Gbps optical labels with real time switching and unicast/multicast operation using a WDM Raman enhanced all-optical fiber cross-phase modulation ...

Cited by 15 • Related articles • All 7 citations

hop all-optical label swapping with variable length 80 Gb/s packets and 10 Gb/s labels using nonlinear fiber wavelength converters, unicast/multicast output and a ...

L Rau, S Kanyarayan, DJ Baumanthal ... and Exhibit, 2002, ... - [researchgate.net](#)

... architectures. Both unicast and multicast operation are demonstrated. BER ... hop. The second hop power penalty is only due to non-optimal filtering at the wavelength converter output and can be improved in future experiments. ...

Cited by 49 • Related articles • All 2 citations

[CITATION] Comparison of unicast/multicast optical packet switching architectures using wavelength conversion

V Eramo ... Opt Netw Mag, 2002

Cited by 14 • Related articles

Multicast and unicast real-time video streaming over wireless LANs

A Majumdar, LG Sachs, IV Kozminsky ... and Systems for, 2002 - [researchgate.net](#)

... Page 6 MAJUMDAR et al.: MULTICAST AND UNICAST REAL-TIME VIDEO STREAMING OVER WIRELESS LANs 528 Fig. 6 Conversion of the prioritized scalable stream into an unprioritized one through unequal channel codes. ...

Cited by 36 • Related articles • All 3 citations

Light trees: optical multicasting for improved performance in wavelength routed networks

JH Srinivasan, ... Communications Magazine, 1996 - [IEEE Xplore](#)

... The splitter bank may be enhanced to provide optical signal amplification, wavelength conversion, and signal regeneration for "multicast" as well as "unicast" signals. For example, in Fig. 4 wavelength 1, is a unicast signal, and is a multicast signal. ...

Cited by 426 • Related articles • All 4 citations

[PDF] Next-Generation Mobile-Access IP Network

P Matsuyama, H Ghobadi, H Inouchi ... (IEEE) Review, 2000 - [ieee.com](#)

... private address. This conversion can be implemented by additionally installing the multicast-to-unicast conversion feature on a NAT gateway to convert IPv4 multicast addresses into IPv4 private addresses. Moreover, in combination ...

Cited by 15 • Related articles • All 5 citations

Constrained multicast routing in WDM networks with sparse light splitting

X Zhang, JY Wei ... Lightwave Technology Journal of, 2000 - [IEEE Xplore](#)

... 1(b) IP multicast via WDM unicast) ... Simulation is described and performance results are presented

[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Gmail](#) [more](#)
[Scholar](#) [Preferences](#) | [Sign in](#)

Google scholar

unicast adapt multicast

Search

Advanced Scholar Search

Scholar | Articles and patents

anytime

include citations

Create email alert Results 1 - 10

Method and system for a unicast endpoint client to access a multicast internet protocol (IP)session

D.H. Shin . . . US Patent 6,259,791, 2001 - Google Patents

... cast client. The Unicast client is then able to participate in the Multicast session as both a sender and a receiver of packets to and from other Unicast and Multicast clients which are active during the session. Further, the Unicast ...

Cited by 13 - Related articles - All 2 versions

Method and system for multicasting cells in an ATM protocol adapter

M. Gubina, M. Ponomarev . . . US Patent 6,101,487, 2000 - Google Patents

... The use of a multicast queue prevents conflicts between a flow of cells to be multicasted and even a possibly bursty flow of unicast cells from the switch fabric. The multicast table offers a flexible system for easily updating new cells processed by each protocol adapter. ...

Cited by 15 - Related articles - All 2 versions

ATM cell multicasting method and apparatus

A. Azcar, J. Calamante, D. Gresh, D. Pigat . . . US Patent . . . 1997 - Google Patents

... pointers to the queues dedicated to the output ports attached to the enqueue and dequeue processes are also the same for the adapter 120. A cell buffer, preferably a sixty-four byte unicast and multicast cells, <0 structure 202, resides in a transmit side store 200. ...

Cited by 10 - Related articles - All 2 versions

An architecture for wide-area multicast routing

S. Deering, D. Estrin, D. Farnham . . . Proceedings of the . . . 1994 - portal.acm.org

... adapt to different multicast group and network characteristics; (c) is not dependent on a specific unicast routing protocol, and (d) uses soft-state mechanisms to adapt to underlying network conditions and group dynamics. ...

Cited by 562 - Related articles - All Direct - All 12 versions

[PDF]

The PIM architecture for wide-area multicast routing

S. Deering, D. Estrin, D. Farnham . . . ACM Transactions on . . . 1996 - portal.acm.org

... Routing Protocol independence: The protocol should rely on existing unicast routing functionality to adapt to topology changes, but at the same time be independent of the particular protocol employed. We accomplish this by letting the multicast protocol make use of the ...

Cited by 519 - Related articles - All Direct - All 14 versions

[HTML]

Inferring link loss using striped unicast probes

M.G. Duffield, L. Piro, V. Paxson . . . 2001, Twentieth Annual . . . 2001 - information.scs.cmu.edu

... B. Contribution In this paper we adapt the multicast inference techniques proposed in [2] to perform inference of internal network characteristics from unicast end-to-end measurements. The data for the inference comprises ...

Cited by 11 - Related articles - All Direct - All 4 versions

[PDF]

Multicasting protocols for high-speed, wormhole-routing local area networks

M. Gubina, P. Palmer . . . Conference proceedings on . . . 1996 - portal.acm.org

... several features in the crossbar switch that go beyond the basic requirements for unicast worm handling ... That is, the host adapter, upon receiving the multi-cast worm, copies it to its local host and at the same time retransmits it to one or more hosts in the same multicast group ...

Cited by 42 - Related articles - Library Search - All Direct - All 20 versions

[PDF]

Method and apparatus for on demand multicast and unicast using controlled flood multicast communications

Y. Liu, J. Vetter . . . US Patent 7,154,921, 2007 - Google Patents

[Web](#) [Images](#) [Videos](#) [Maps](#) [News](#) [Shopping](#) [Gmail](#) [more](#)
[Scholar](#) [Profile](#) [Sign In](#)

Google scholar

unicast transform multicast

Search

Advanced Scholar Search

Scholar

Articles and patents

anytime

include citations

Create email alert Results 1 - 10

(PDF) The group domain of interpretation

[PDF]

M Baugher, T Horroper, H Hamey - *Work at Progress* - 2002 - [inf.org](#)

... Category-3 SA Initial Setup (unicast) (Pull) (Push) ... 30 SA Payload Usage Examples - A multicast application could include SA_KEK and SA_TK in the pull and ... DOI = 1 NP=Nonce Proposal Payload, NP=Proposal Transform Payload, NP=Transform Transform Payload, NP=D ...

Cited by 12 - [Related articles](#) - [View in HTML](#) - [All 12 citations](#)**Construction of an efficient overlay multicast infrastructure for real-time applications**

[PDF]

S Banerjee, C Vamvoudakis, K Kar - *Joint Conference of* - 2000 - [ieee-pstore.else.org](#)

... Consider a multicast application in which the source injects traffic at the rate of B units per second ... If the transformation is performed, and L_{k,j} and L_{k,j} denotes the same prior to the transformation ... If each MSN maintains unicast latency estimates of all its neighbors on the tree ...

Cited by 170 - [Related articles](#) - [Bil. Links](#) - [All 170 citations](#)**RMX: Reliable multicast for heterogeneous networks**

[PDF]

Y Chawathe, S McCanne - *2000 Networkin Annual* - 2000 - [ieee-pstore.else.org](#)

... Each link into the RMX has an associated link agent that implements the specific details of the (unicast or multicast) reliability protocol ... The agent relies on specialized transformation engines to potentially convert the data into a different representation before forwarding it ...

Cited by 275 - [Related articles](#) - [Bil. Links](#) - [All 275 citations](#)**Optimization-based congestion control for multicast communications**

[PDF]

J Shapiro, D Towley - *NETWORKING 2002 Networkin* - 2000 - [Springer](#)

... We feel that this is a natural assumption in the case of single-rate multicast. The second requirement is that both sender- and receiver-oriented utility functions should reduce to the same standard unicast utility function up to a linear transformation when R = 1. These two ...

Cited by 11 - [Related articles](#) - [Bil. Links](#) - [All 11 citations](#)**Multicasting: Will it transform the Internet?**S Lawton - *Computat* - 1998 - [ieee-pstore.else.org](#)

... intranets. And proponents say it could radically transform the network. ... nology. However, Almeroth said, the multicast approach would be far more bandwidth-efficient than the unicast model used by such push vendors as PointCast. Meanwhile ...

Cited by 5 - [Related articles](#) - [All 5 citations](#)**(PDF) Optimal time slot assignment algorithm for combined unicast and multicast packets**

[PDF]

HS Lee, JO Joo, H Lee - *ETRI Journal* - 2002 - [physphd.net](#)

... N for input port i and output port j is at least $\lceil \frac{1}{2} \rceil \frac{1}{m}$ and least for all the unicast traffic $\lceil \frac{1}{2} \rceil$... Step 2. Transform, if necessary, the given traffic matrix A into A' so as to be \wedge -complete with respect to B ... find A' as A'-A', where L = max (row sum, column sum for U' part, 2/i multicast ports for ...

Cited by 1 - [Related articles](#) - [Bil. Links](#) - [All 1 citations](#)**Security issues and solutions in multicast content distribution: A survey**

[PDF]

P Judge - *Network, IEEE* - 2007 - [ieee-pstore.else.org](#)

... These efforts have continued to transform multicast into a technology that can be relied on by ... Security Issues and Solutions These properties of multicast lead to security issues and vulnerabilities because ... issues are multi-cast-specific or the issues also exist in unicast, but the ...

Cited by 152 - [Related articles](#) - [Bil. Links](#) - [All 152 citations](#)**On Unicast based Recovery for Multicast Content Distribution considering XOR-FEC**G Suresh, V Hnagappa - *2005 Asia Pacific* - 2005 - [ieee-pstore.else.org](#)

... In particular LT (Luby Transform) codes are effective in a heterogeneous multicast environment ... time can be restricted due to operational reasons considering multicast resource efficiency ... download completion under such conditions, we newly designed a unicast based recovery ...